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March 26, 1964

MEMORANDUM FOR: Mr. Arthur C. Lundahl, Director, National Photographic Interpretation Center

Subject: State Department Briefing

The following State Department and ACDA officers plan to attend the 1 April NPIC briefing:

✓ Dean Rusk	Secretary of State
✓ George W. Ball	Under Secretary of State
✓ U. Alexis Johnson	Deputy Under Secretary for Political Affairs
✓ Llewellyn E. Thompson	Ambassador at Large
✓ William C. Foster	Director, ACDA
✓ Walt W. Rostow	Counselor and Chairman of Policy Planning Council
<del>William R. Tyler</del>	Assistant Secretary, European Affairs
<del>William P. Bundy</del>	Assistant Secretary, Far Eastern Affairs
✓ Thomas L. Hughes	Director of Intelligence and Research
<del>Abram Chayes</del>	Legal Adviser
✓ Ragnar Rollefson	Scientific Adviser
Jacob D. Beam	
Leslie H. Brown	
William B. Coolidge	
Richard H. Davis	
Lt. Gen. Fred M. Dean	
George C. Denney, Jr.	
Howard Furnas	
James R. Gardner	
Raymond L. Garthoff	
Marshall Green	
✓ Thomas A. Halsted	
Jeffrey C. Kitchen	
Erwin M. J. Kretzmann	
William B. Marvel	
Brewer J. Merriam	
Howard Meyers	
Dana Orwick	
Robert F. Packard	
Herbert Scoville, Jr.	
Howard M. Wiedemann	

1430  
South Side  
See Reception Room

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Thomas A. Halsted  
Scientific Intelligence Staff, INR

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*K. Lewis to  
Sec State  
1 April  
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INTRODUCTION

The availability in quantity and depth of high quality photography of the Soviet Union has opened up a new dimension in intelligence analysis and reporting on the Soviet Strategic threat to the national security of the United States. When incorporated with other sources of information and cross-checking of leads in various source systems has been completed, photography provides a base and a core of precision that allows a high level of confidence in our estimates. Our search coverage of the Soviet Union with the basic satellite camera system, the KH-4, is by now extensive and beginning in February it is being supplemented by a wealth of technical detail which can be provided by the higher resolution, spot coverage camera just emerging from its developmental and engineering test phase, the KH-7.

Today we would like to present a two-part briefing, the first part on the coverage and capabilities of our satellite photography systems, the second sketching in the highlights of the substantive knowledge of the Soviet Union derived from this source, when integrated with other intelligence, during the past year or so.

Mr. Lundahl, Director of the National Photographic Interpretation Center will present the first part of the briefing and  of our Office of Current Intelligence will present the substantive briefing.

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KH-7/KH-4

SUBMARINES

Dimensions + 2-3' / 5-10'  
Configuration Sail Size/Marginal  
Sail Shape/No  
Snort Location/No  
Missile Tubes/No  
Location/Spacing  
Hull Shape/Configuration/Marginal  
Positive Classification/No

SUBMARINE BASE FACILITIES

Dimensions + 2-3' / + 5-10'  
Building Functional Identification: Fine/Broad  
Handling Equipment: Yes/No  
(Cranes, Mobile Equip)  
Water Front Facilities: Fine/Broad

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WORKING PAPER

KH-7/KH-4 (Continued)

#### OTHER NAVAL ACTIVITY

Armament: Type/No

Radar: Certain Types/No

Shipbuilding: Details of Classes U/C/Type Ident. only

Prime Ex. of 4 & 7 see Vlad.

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Scale and resolution now available on KH-4 is suitable for the identification of heavy and medium bomber and transport aircraft by type (BISON, BEAR, CAMEL) under good conditions. Under optimum conditions light bombers and smaller transports can be identified (BEAGLE, CAB, CRATE). Fighter or other single engine aircraft or aircraft with major dimensions less than 80' feet have not been identified on KH-4 material.

With the KH-7 material viewed to date, it is possible to identify all known types of fixed-wing aircraft, with the exception of some liaison types, when the photography is vertical and of good quality. Our experience with helicopters is too limited to make a judgment at this time but it is anticipated that all major types of helicopters will be identifiable. The only problem as yet unresolved pertains to certain new fighter aircraft where the only apparent visual difference at KH-7 scale will be the size.

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The prime benefit of KH-7 photography over KH-4 photography is in the field of order of battle information. Whether the OB is missile or ground support equipment, aircraft, armor, submarines, vehicles, railroad rolling stock -- KH-7 has proven itself in an identification role. An additional benefit is in the role of structure identification and utilization. This identification is through component and sub-component design and detail.

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